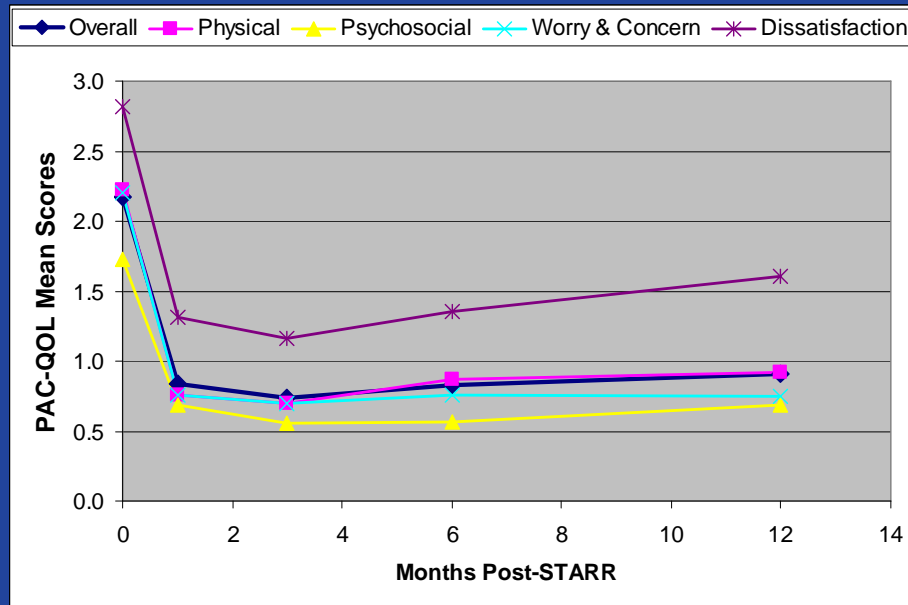
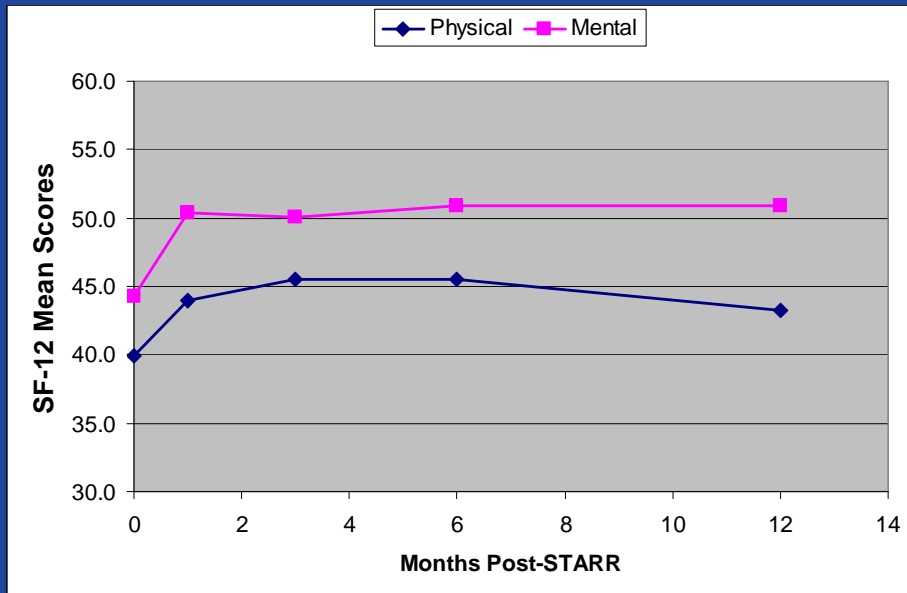


Study Results- Quality of Life Assessments



PAC-QOL: Lower Score = Less Impairment
Max Score = 4

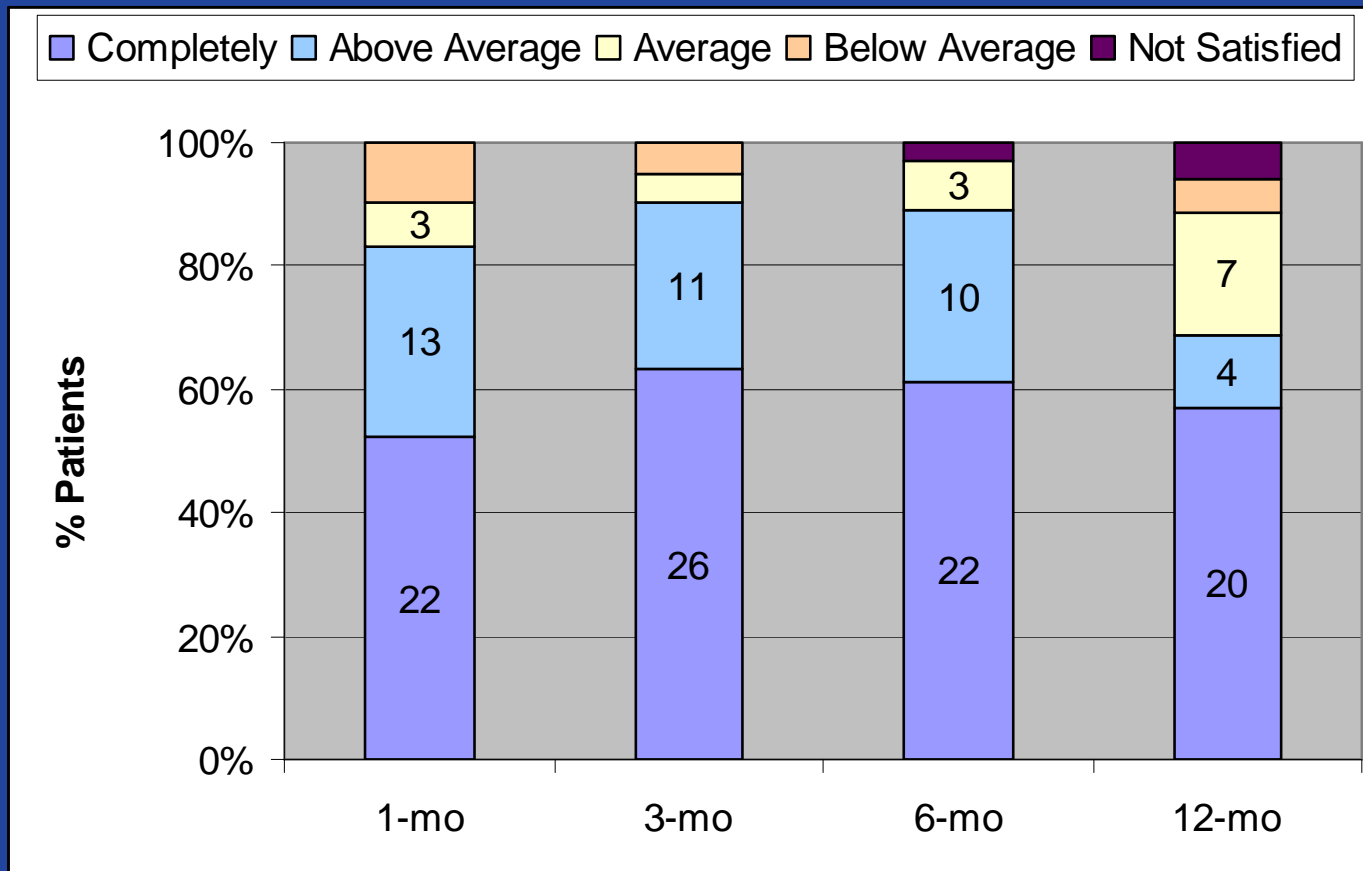


SF-12: Higher Score = Less Impairment



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Study Results - Patient Satisfaction with STARR



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Study Results - Adverse Events

43 of 43 patients (100%) experienced at least one adverse event

Most Frequent AEs:

■ Proctalgia	38 (88%)
■ Rectal Bleeding	24 (56%)
■ Nausea	17 (40%)
■ Anal Discomfort	15 (35%)
■ Fecal Urgency	11 (26%)
■ Abdominal Distension	10 (23%)
■ Diarrhea	10 (23%)
■ Urinary Retention	10 (23%)

3 of 43 patients (7%) experienced a serious complication associated with STARR

■ Rectal bleeding w/intervention	1 (2%)
■ Rectal pain w/re-hospitalization	1 (2%)
■ Tissue overload of stapler	1 (2%)



STARR Results:

Early Complications

■ Urinary retention	
5.6%	
■ Bleeding	4.4%
■ Pneumonia	1.1%
■ Pelvic sepsis	0
■ Mortality	0

Boccasanta et al. Dis Colon Rectum 2004. 47(8):1285-1297



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STARR Results:

Late Complications

	1 Month	3 Months	6 Months	1 Year
Urgency	17.8%	10%	1.1%	1.1%
Incontinence (flatus)	8.9%	6.7%	1.1%	1.1%
Stenosis	2.2%	3.3%	3.3%	3.3%
RVF	0	0	0	0
Dyspareunia	0	0	0	0



STARR Results:

Symptom Resolution

	PREOP	3 Months	6 Months	1 Year
Incomplete Evacuation	98.9%	24.4%	21.1%	18.9%
Digitation	87.8%	5.6%	4.4%	4.4%
Pain	63.3%	25.6%	21.1%	20%
Laxatives	52.2%	13.3%	10%	10%
Enema	44.4%	4.4%	2.2%	2.2%
Abd Pain	28.8%	16.7%	13.4%	12.2%
Bleeding	17.8%	4.4%	2.2%	2.2%



Conclusions

STARR for ODS

- Safe
- Highly effective for symptom management
- New technique that has allowed re-definition of the clinical problem



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